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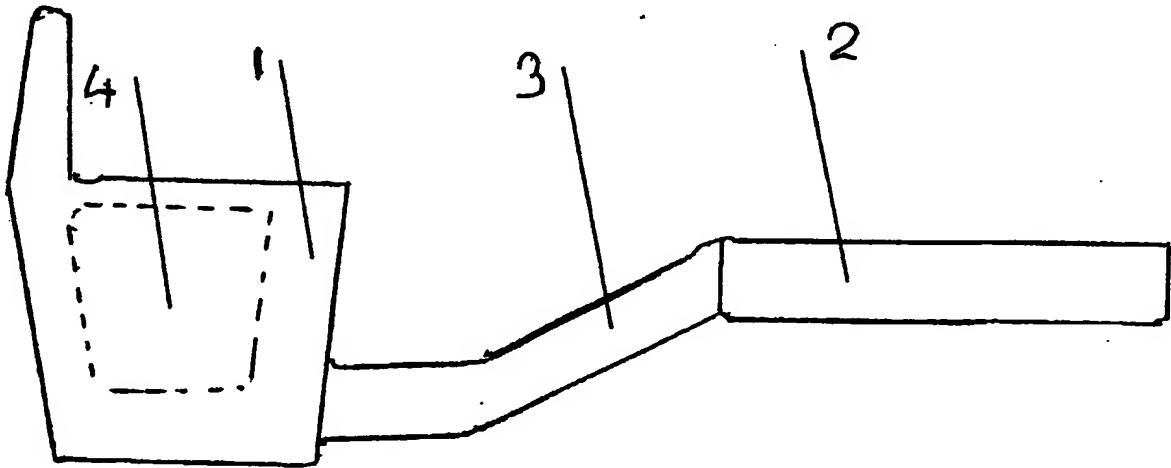
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(56) Documents Cited
GB 2172834 A **EP 0539097 A1**
US 5768956 A **US 5216939 A**

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Other: Online databases: Derwent World Patents
Index, Patent Abstracts of Japan and European Patent
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(54) Abstract Title
HAMMERS AND THE LIKE

(57) A hammer or similar percussive tool 1 is arranged to have the centre of gravity of its head in close proximity to the striking face, this may be through the presence of an insert 4 of heavier material sealed within the head. A shaft 3 and hand grip 2 may be provided. The width of the head may remain constant or increase with increasing distance from the striking face and then decrease rapidly and may form a tongue or claw.



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Hammers

This patent relates to hammers

Hammers are well known tools . They are all inefficient as the Centre of Gravity (CG) of the head is further from the face than necessary.

According to the present invention there is provided a hammer comprising a head arranged to have its CG near the face and which may include a portion of a heavier material than the head sealed within it and a shaft and handgrip. A specific embodiment of the invention of the invention will now be described with reference to the drawing in which....

The drawing shows the front view of a hammer 1 is the head whose face is of any required shape. Horizontal sections taken at increasing distance from the face will remain constant or increase steadily until the maximum when they get rapidly smaller to form tongue, claw etc

A shaft 3 and handgrip 2 is provided. The head may include a sealed portion 4 of a heavier material than the head. The shaft will meet the head as low down as convenient and the section may be increased accordingly

Sledgehammer heads may include a sealed portion or plugs of a heavier material. Club hammers, mallets and other percussive tools will gain by reducing the distance from striking face to CG by these methods



INVESTOR IN PEOPLE

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Claims searched: 1 & 2

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Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): B4C

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Other: Online databases: Derwent World Patents Index, Patent Abstracts of Japan and European Patent Office

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2172834 A (MAEDA) especially figs	1
X	EP 0539097 A1 (HEMLOCK) especially figs	1
X	US 5768956 (COONRAD) especially figs	1
X	US 5216939 (SWENSON) especially figs	1

X Document indicating lack of novelty or inventive step

Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art

P Document published on or after the declared priority date but before the filing date of this invention.

E Patent document published on or after, but with priority date earlier than, the filing date of this application.